Location Service - Near - v3.0

Domain Portfolio: Utility | Domain: Search | Usage Classification: Standard

Geography: Global **Attribution Required:** N/A **Attribution Requirements:** N/A

Overview

The Location Service - Near API provides the ability to lookup valid Personal Weather Station (PWS) station identifiers (stationId), Airports identifiers to retrieve a set of valid identifiers, Ski Resorts, or METAR Station Observations, and distance information matching the request.

- Airport: The response shall include up to 10 Airports nearest the requested location
- Observation: The response shall include up to 10 Observations for METAR Stations nearest the requested location
- PWS: The response shall include up to 10 Personal Weather Stations nearest the requested location
- Ski: The response shall include up to 10 Ski Resorts nearest the requested location

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see **The Weather Company Data | API Common Usage Guide**.

URL Construction

Atomic API URL Examples:	**Aggregate Product Name**	v3-location-near
Search Airport by Geocode: **Required Parameters: geocode, format, product, apiKey**		
https://api.weather.com/v3/location/near?**geocode=33.74,-84.39**&**product=airport**&format=json&apiKey=**yourApiKey**		
Search Observation by Geocode: **Required Parameters: geocode, format, product, apiKey**		
https://api.weather.com/v3/location/near?**geocode=33.74,-84.39**&**product=observation**&format=json&apiKey=**yourApiKey**		
Search PWS by Geocode: **Required Parameters: geocode, format, product, apiKey**		
https://api.weather.com/v3/location/near?**geocode=33.74,-84.39**&**product=pws**&format=json&apiKey=**yourApiKey**		
Search Ski Resort by Geocode: **Required Parameters: geocode, format, product, apiKey**		
https://api.weather.com/v3/location/near?**geocode=33.74,-84.39**&**product=ski**&format=json&apiKey=**yourApiKey**		

Parameter Definitions

Parameter	Name	Description	Example
API Key	apiKey	The “apiKey” is used for access using the api; usually customer specific.	..v3/location/near?**apiKey=yourApiKey**
Format	format	The format of the response (json)	..v3/location/near?**format=json**
Product	product	The product is the identifier type used in the query. Valid values include; airport, observation, pws, ski	..v3/location/near?**product=airport** ..v3/location/near?**product=observation** ..v3/location/near?**product=pws** ..v3/location/near?**product=ski**
Location Parameter	**Name**	**Description**	**Example**
Geocode	geocode	TWC uses valid latitudes and longitude coordinates to identify locations worldwide. Uses WGS84 geocode coordinate reference system. https://www.w3.org/2003/01/geo/ **33.40,83.19** is the manner in which a latitude and longitude is accepted for the weather APIs	..v3/location/near?**geocode=34.063,-84.217**

Data Elements & Definitions

Field Name	Description	Type	Range	Sample	Nulls Allowed
location	Object for location data	[array]			
latitude	Latitude of the requested location	[decimal]	Any valid latitude value	33.638271,	N
longitude	Longitude of the requested location	[decimal]	Any valid longitude value	-84.429369,	N
distanceKm	Distance from requested location in kilometers	[decimal]		0.4	Y
distanceMi	Distance from requested location in miles	[decimal]		0.25	Y
Fields Unique to PWS					
stationId	The PWS station identifier	[string]		KGAATLAN81	Y
stationName	The station name near the requested location	[string]		Atlanta	N
partnerId	For internal use only and to be disregarded	[string]		null	Y
qcStatus	The indicator to signify whether the station has passed quality control checks: -1=not checked (default value); 0=failed; 1=OK	[string]		1	Y
updateTimeUtc	An epoch time indicating the date of the last update received from the station	[epoch]		1557819905	Y
Fields Unique to Airport					
airportName	The airport names near the requested location	[string]		Hartsfield-Jackson Intl	Y

iataCode	The International Air Transport Association (IATA) airport codes of the requested location	[string]	Any valid IATA code	ATL	Y
icaoCode	The International Civil Aviation Organization (ICAO) airport codes of the requested location	[string]	Any valid ICAO code	KATL	Y
Fields Unique to Ski Resorts					
adminDistrictCode	The internationalized State, Region, District or Province identifier code for 'state' or geopolitical area - level 1 administrative division - codes are ISO 3166-2 compliant	[string]	Any valid state, region, district or province code	GA,	Y
countryCode	ISO Country Code	[string]	Any valid ISO country code	US,	Y
ianaTimeZone	The standard IANA Time Zone for the location requested	[string]	Any valid IANA time zone	America/New_York,	Y
skiId	The ski resort identifier near the requested location	[string]		347	Y
skiName	The ski resort name of the requested location	[string]		Sapphire Valley	Y

JSON Sample

Airport Search


```
{
  "location": {
    "latitude":["33.9152806","33.7791264","33.8756111","34.0131667","33.6366996"]
    "longitude":["-84.5163528","-84.521366","-84.3019722","-84.5970278","-84.427864"]
    "distanceKm":[5.91,13.57,14.68,18.64,28.33]
    "distanceMi":[3.67, 8.43, 9.12, 11.58, 17.6]
    "airportName":["Dobbins Air","Fulton County","Dekalb-Peachtree","Cobb County","Hartsfield-Jackson Intl"]
    "iataCode":["MGE","FTY","PDK","RYY","ATL"]
    "icaoCode":["KMGE","KFTY","KPDK","KRYY","KATL"]
  }
}
```


Observation Search


```
{
 "location": {
   "adminDistrictCode":[null,null,null,null,null]
   "stationName":["Aberdeen/Amory","Columbus AFB","Haleyville","Columbus","Jasper"]
   "countryCode":["US","US","US","US","US"]
   "stationId":["KM40","KCBM","K1M4","KGTR","KJFX"]
   "ianaTimeZone":["America/Chicago","America/Chicago","America/Chicago","America/Chicago","America/Chicago"]
   "obsType":["METAR","METAR","METAR","METAR","METAR"]
   "latitude":[33.867,33.65,34.2833,33.45,33.9]
   "longitude":[-88.483,-88.45,-87.6,-88.5833,-87.317]
   "distanceKm":[36.46,43.36,62.07,67.73,71.34]
   "distanceMi":[22.66,26.94,38.57,42.09,44.33]

  }
}
```

PWS Search


```
{
 "location": {
    "stationName":["Atlanta","Atlanta","Atlanta","Forest Park"],
    "stationId":["KGAATLAN398","KGAATLAN41","KGAATLAN378","KGAFORES2"],
    "latitude":[“33.66058”,”33.68513”,”33.68098”,”33.63761”],
    "longitude":[“-84.46119”,”-84.45192”,”-84.48737”,”-84.35225”],
    "distanceKm":[3.4,5.21,6.71,7.48],
    "distanceMi":[2.11,3.24,4.17,4.65]
    "partnerId":[null,null,null,null],
    "qcStatus":[1,1,-1,-1],
    "updateTimeUtc":[1557811139,1557797749,null,null]
  }
}
```


Ski Search


```
{
  "location": {
     "adminDistrictCode”:["NC","NC","TN"]
     "countryCode”:["US","US","US"]
     "distanceKm”:[202.54,246.66,247.72]
     "distanceMi”:[125.85,153.27,153.92]
     "ianaTimeZone”:["America/New_York","America/New_York","America/New_York"]
     "latitude”:["35.089","35.5621","35.7231"]
     "longitude”:["-83.097","-83.0909","-83.4802"]
     "skiId”:["347","103","303"]
     "skiName”:["Sapphire Valley","Cataloochee Ski Area","Ober Gatlinburg Ski Resort"]
  }
}
```